

O I P E JAN 09 2004 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE Substitute for form 1449A/PTO PATENT & TRADEMARK OFFICE 9500 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Complete if Known	
Sheet 1 of 4		Application Number:	10/647,423
		Filing Date:	August 25, 2003
		First Named Inventor:	BAVYKIN, Sergei G.
		Group Art Unit	1645
		Examiner Name	
		Attorney Docket Number:	21416-94731

A U.S. PATENT DOCUMENTS					
*Examiner Initials	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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	A.17					
	A.18					
	A.19					

EXAMINER	<i>Jan A. Woolin</i>	DATE CONSIDERED	3/14/06
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**U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

**INFORMATION DISCLOSURE
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(Use several sheets if necessary)

Sheet 2 of 4		Complete if Known	
		Application Number	10/647,423
		Filing Date	August 25, 2003
		First Named Inventor	BAVYKIN, Sergei G..
		Group Art Unit	1645
		Examiner Name	not yet assigned
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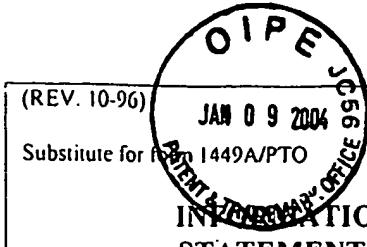
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>Sw</i>	B.1	ASH, C., et al. 1992. "Comparative analysis of 23S ribosomal RNA gene sequences of <i>Bacillus anthracis</i> and emetic <i>Bacillus cereus</i> determined by PCR-directsequencing." FEMS Microbiol. Lett. 94:75-80.	
<i>Sw</i>	B.2	ASH, C., et al. 1991. "Comparative analysis of <i>Bacillus anthracis</i> , <i>Bacillus cereus</i> , and related species on the basis of reverse transcriptase sequencing of 16S rRNA." Int. J. Syst. Bacteriol. 41:343-346.	
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<i>Sw</i>	B.4	BAVYKIN, S. G. et al. 2001. "Portable system for microbial sample preparation and oligonucleotide microarray analysis." Appl. Environ. Microbiol., 67: 922-928.	
<i>Sw</i>	B.5	BEYER, W., et al. 1996. "A nested PCR and DNA-amplification-fingerprinting method for detection and identification of <i>Bacillus anthracis</i> in soil samples from former tanneries." Salisbury Medical Bulletin, Special Supplement No. 87:47-49.	
<i>Sw</i>	B.6	CHEE, M., et al. 1996. "Accessing genetic information with high-density DNA arrays." Science 274: 610-614.	
<i>Sw</i>	B.7	DAFFONCHIO, D., et al. 2000. "Homoduplex and heteroduplex polymorphisms of the amplified ribosomal 16S-23S internal transcribed spacers describe genetic relationships in the ' <i>Bacillus cereus</i> Group.'" Appl. Environ. Microbiol. 66:5460-5468.	
<i>Sw</i>	B.8	GIFFEL, M.C., et al. 1997. "Discrimination between <i>Bacillus cereus</i> and <i>Bacillus thuringiensis</i> using specific DNA probes based in variable regions of 16S rRNA. FEMS Microbiol." Lett. 146:47-51.	
<i>Sw</i>	B.9	GUSCHIN, D., et al. 1997. "Manual manufacturing of oligonucleotide, DNA, and protein microchips." Anal. Biochem. 250:203-211.	
<i>Sw</i>	B.10	GUSHIN, D. Y., et al. 1997. "Oligonucleotide microchips as genosensors for determinative and environmental studies in microbiology." Appl. Environ. Microbiol. 63:2397-2402.	
<i>Sw</i>	B.11	HARRELL, L. J., et al. 1995. "Genetic variability of <i>Bacillus anthracis</i> and related species." J. Clin Microbiol. 33:1847-1850.	
<i>Sw</i>	B.12	HELGASON, E., et al. 2000. " <i>Bacillus anthracis</i> , <i>Bacillus cereus</i> , and <i>Bacillus thuringiensis</i> -one species on the basis of genetic evidence." Appl. Environ. Microbiol. 66:2627-2630.	
EXAMINER	<i>Sam Woolin</i>	DATE CONSIDERED	3/14/06

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FORM PTO/SB/08A	U.S. DEPARTMENT OF COMMERCE	Complete if Known
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(REV. 10-96) Substitute for Form 1449A/PTO		PATENT AND TRADEMARK OFFICE	
JAN 09 2004		Application Number	10/647,423
INTERNATIONAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	August 25, 2003
(Use several sheets if necessary)		First Named Inventor	BAVYKIN, Sergei G..
Sheet 3 of 4		Group Art Unit	1645
		Examiner Name	not yet assigned
		Attorney Docket Number	21416/94731

C OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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<i>Sw</i>	C.1	HENDERSON, I. 1996. "Fingerprinting <i>Bacillus anthracis</i> strains." <i>Salisbury Medical Bulletin, Special Supplement No.</i> 87:55-58.	²
<i>Sw</i>	C.2	HENDERSON, I., et al. 1994. "Differentiation of <i>Bacillus anthracis</i> from other <i>Bacillus cereus</i> group bacteria with the PCR." <i>Int. J. Syst. Bacteriol.</i> 44:99-105.	
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<i>Sw</i>	C.4	HUTSON, R. A., et al. 1993. "The development and assessment of DNA and oligonucleotide probes for the specific detection of <i>Bacillus anthracis</i> ." <i>J. Appl. Bacteriol.</i> 75:463-472.	
<i>Sw</i>	C.5	JACKSON, P. J., et al. 1999. "Genetic comparison of <i>Bacillus anthracis</i> and its close relatives using amplified fragment length polymorphism and polymerase chain reaction analysis." <i>J. Appl. Microbiol.</i> 87:263-269.	
<i>Sw</i>	C.6	KIEM, P., et al. 1997. "Molecular evolution and diversity in <i>Bacillus anthracis</i> as detected by amplified fragment length polymorphism markers." <i>J. Bacteriol.</i> 179:818-824.	
<i>Sw</i>	C.7	LONGCHAMP, P., et al. 1999. "Molecular recognition specificity of <i>Bacillus anthracis</i> spore antibodies." <i>J. Appl. Microbiol.</i> 87:246-249.	
<i>Sw</i>	C.8	PATRA, G., et al. 1996. "DNA fingerprinting of <i>Bacillus anthracis</i> strains." <i>Salisbury Medical Bulletin, Special Supplement No.</i> 87:59.	
<i>Sw</i>	C.9	PATRA, G., et al. 1996. "Isolation of a specific chromosomal DNA sequence of <i>Bacillus anthracis</i> and its possible use in diagnosis." <i>EMS Immunol. Med. Microbiol.</i> 15:223-231.	
<i>Sw</i>	C.10	PRIEST, F. G., et al. 1994. "Characterization of <i>Bacillus thuringiensis</i> and related bacteria by ribosomal RNA gene restriction fragment length polymorphisms." <i>Microbiology</i> 140:1015-1022.	
<i>Sw</i>	C.11	PROUDNIKOV, D., et al. 1998. "Immobilization of DNA in polyacrylamide gel for the manufacture of DNA and DNA-oligonucleotide microchips." <i>Anal. Biochem.</i> 259:34-41.	
<i>Sw</i>	C.12	RAMISSE, V., et al. 1996. "Identification and characterization of <i>Bacillus anthracis</i> by multiplex PCR analysis of sequences on plasmids pX01 and pX02 and chromosomal DNA." <i>FEMS Microbiol. Lett.</i> 145:9-16.	
EXAMINER	<i>Jan Walen</i>		DATE CONSIDERED <i>3/14/06</i>

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Sheet 4 of 4

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Application Number 10/647,423

Filing Date August 25, 2003

First Named Inventor BAVYKIN, Sergei G..

Group Art Unit 1645

Examiner Name not yet assigned

Attorney Docket Number 21416/94731

D OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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<i>Sw</i>	D.1	RYZHOV, V., et al. 2000. "Rapid characterization of spores of <i>Bacillus cereus</i> group bacteria by matrix-assisted laser desorption-ionization time-of-flight mass spectrometry." <i>Appl Environ. Microbiol.</i> 66:3828-3834.	
<i>Sw</i>	D.2	SHANGKUAN, Y.-H., ET AL. 2000. "Comparison of PCR-RFLP, ribotyping and ERIC-PCR for typing <i>Bacillus anthracis</i> and <i>Bacillus cereus</i> strains. <i>J. Appl. Microbiol.</i> 89:452-462.	
<i>Sw</i>	D.3	STRIZHKOV, B. N., et al. 2000. "PCR amplification on a microarray of gel-immobilized oligonucleotides: detection of bacterial toxin- and drug-resistant genes and their mutations." <i>BioTechniques</i> 29:844-857.	
<i>Sw</i>	D.4	WUNSCHEL, D., et al. 1994. "Discrimination among the <i>Bacillus cereus</i> group, in comparison to <i>B. subtilis</i> , by structural carbohydrate profiles and ribosomal RNA spacer region PCR." <i>Syst. Appl. Microbiol.</i> 17:625-635.	
<i>Sw</i>	D.5	YERSHOV, G., et al. 1996. "DNA analysis and diagnostics on oligonucleotide microchips." <i>Proc. Natl. Acad. Sci. USA.</i> 93:4913-4918.	
<i>Sw</i>	D.6	ZLATANOVA, J., et al. 2001. "Gel immobilized microarrays of nucleic acids and proteins." In J. B. Rampal (ed.), <i>Methods in Molecular Biology: DNA Arrays, Methods, and Protocols</i> , in press, Human Press, Inc., Totowa, NJ.	
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